



Atty. Docket: 54320.000008

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	09/824,053	AUG 1
Filing Date	April 3, 2001	5 2003
First Named Inventor	Peter STOUGAARD et al.	
Group Art Unit	1652	
Examiner Name	W. Moore	
Attorney Docket Number	54320.000008	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Searched/Consulted/Indexed/Interviewed Foreign Patent References Foreign Applications Appeals/Appeared in
		Number	Kind Code ³ (if known)			
UNYPA	1.	5318285		DeStefano	06-03-1994	
UNYPA	2.	6039983		Wagner et al.	03-21-2000	426/18
UNYPA	3.	09/932,923		Spec et al.	filed 08-21-2001	
UNYPA	4.	10/040,394		Spec	filed 01-09-2002	
UNYPA	5.	10/460,439		Spec et al.	filed 03-13-2002	
UNYPA	6.	6406723		Spec et al.	06-18-2002	426/18

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-MM-DD-YYYY	Country	Translation (Y/N)
		Office ²	Number ⁴	Kind Code ³ (if known)				
UNYPA	7.	CA	2012723		Maar et al.	09-23-1990	Canada	Y
UNYPA	8.	JP	7-274807A			10-24-1995	Japan	N
UNYPA	9.	JP	3-164127			07-16-1991	Japan	N
UNYPA	10.	JP	4-207146			07-29-1992	Japan	N
UNYPA	11.	JP	4-207145			07-29-1992	Japan	N
UNYPA	12.	JP	2-224143			09-06-1990	Japan	N
UNYPA	13.	EP	0010296		Nagai et al.	04-30-1980	Europe	Y
UNYPA	14.	EP	0468734		Nobuyoshi et al.	01-29-1992	Europe	Y
UNYPA	15.	EP	0585988 B1		Van Eijk et al.	03-09-1994	Europe	Y
UNYPA	16.	GB	2,358,784		Jorn Borch Soe	08-08-2001		
UNYPA	17.	JP	04-200339 (and English language abstract)		Mikiko, S.	07-21-1992		N
UNYPA	18.	JP	06-296467 (and English language abstract)		Masaaki, A.	10-25-1994		N
UNYPA	19.	WO	94/04035		Olesen et al.	03-03-1994		Y
UNYPA	20.	WO	96/39851		Spec et al.	12-19-1996		Y
UNYPA	21.	WO	98/45453		Poulsen et al.	10-15-1998		Y
UNYPA	22.	WO	99/31990		Schneider et al.	07-01-1999		Y
UNYPA	23.	WO	00/32758		Bojsen et al.	06-08-2000		Y

Examiner Signature	<i>W. Moore</i>	Date Considered	<i>11/11/2003</i>
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Schedule for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/824,053	
(use as many sheets as necessary)			Filing Date	April 3, 2001	
Sheet	2	of	First Named Inventor	Peter STOUGAARD et al.	
			Group Art Unit	1652	
			Examiner Name	W. Moore	
			Attorney Docket Number	54320.000008	
				TECH CENTER 1600/2900	
				AUG 05 2003	

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
		Office ²	Number ³	Kind Code ⁴ (if known)			
	24.	WO	01/39602 A1		Spec	06-07-2001	Y
	25.	WO	02/00852		Tsutsumi et al.	01-03-2002	Y
	26.	WO	02/03805		Budolfson et al.	01-17-2002	Y
	27.	WO	02/065854		Ross et al.	08-29-2002	Y
	28.	WO	02/066622		Tsutsumi et al.	08-29-2002	Y
	29.	DE	4301904		Kopetski et al.	02-10-1994	Denmark
	30.	CL	838-1991		Patent Application	03-10-1992	Chilean
	30A	CL	875-1994		Patent Application		Chilean (No copy)

NON-PATENT LITERATURE DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner Initials*	Cite No. ¹	Non-Patent Literature Document					
		Author	Title	Publication Date	Page(s)	Country	Language
	31.	Poulsen, C., et al.	"Purification and Characterization of a Hexose Oxidase with Excellent Strengthening Effects in Bread", <i>Cereal Chem.</i> , 75(1):51-57 (1998).				
	32.		"Effect of Different Hexose Oxidase and Other Oxide Reductases in Dough", Experimental Data Submitted by Applicant in European Counterpart Application 96917368.				
	33.	Krog, N.J.	"Dynamic and Unique Monoglycerides", <i>Cereal Foods World</i> , 24(1): 10-11 (1979).				
	34.	Matos, A. R., et al.	"A Novel Patatin-Like Gene Stimulated by Drought Stress Encodes a Galactolipid Acyl Hydrolase", <i>FEBS Letters</i> , 491: 188-192 (2001).				
	35.	Withers-Martinez, C., et al.	"A Pancreatic Lipase with a Phospholipase A1 activity: Crystal Structure of a Chimeric Pancreatic Lipase-Related Protein 2 from Guinea Pig", <i>Structure</i> , 4(11): 1363-1374 (1996).				
	36.	Cordle, R.A.	"The Hydrophobic Surface of Collipase Influences Lipase Activity at an Oil-Water Interface", <i>Journal of Lipid Research</i> , 39: 1759-1767 (1998).				
	37.	Sahsah, Y., et al.	"Purification and Characterization of a Soluble Lipolytic Acylhydrolase from Cowpea (<i>Vigna unguiculata</i> L.) Leaves", <i>Biochimica et Biophysica Acta</i> , 1215: 66-73 (1994).				
	38.	O'Sullivan, J., et al.	"A Galactolipase Activity Associated with the Thylakoids of Wheat Leaves (<i>Triticum aestivum</i> L.)", <i>J. Plant Physiol.</i> , 131:393-404 (1987).				
	39.	Carriere, F., et al.	"Pancreatic Lipase Structure-Function Relationships by Domain Exchange," <i>Biochemistry</i> , 36: 239-248 (1997).				
	40.	Bornscheuer, U.T.	"Lipase-Catalyzed Syntheses of Monoacylglycerols", <i>Enzyme and Microbial Technology</i> , 17: 578-586 (1995).				
	41.	Hou, C.T.	"pH Dependence and Thermostability of Lipases from Cultures from the ARS Culture Collection", <i>Journal of Industrial Microbiology</i> , 13:242-248 (1994).				
	42.	Villeneuve, P., et al.	"Lipase Specificities: Potential Application in Lipid Bioconversions", <i>Inform</i> , 8(6): 640-650 (1997).				
	43.	Carmmann, K., et al.	"Chemical Sensors and Biosensors-Principles and Applications", <i>Angew. Chem. Int. Ed. Engl.</i> , 30: 516-539 (1991).				
	44.	Allen, R.M., et al.	"Low-Level Electrochemical Detection of Glucose Oxidase and a Glucose Oxidase Conjugate", <i>Biosensors and Bioelectronics</i> , 10:621-631 (1995).				

Examiner Signature	<i>W. Moore</i>	Date Considered	<i>11 March 2003</i>
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

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Complete If Known	
Application Number	09/824,053
Filing Date	April 3, 2001
First Named Inventor	Peter STOUGAARD et al.
Group Art Unit	1652
Examiner Name	W. Moore
Attorney Docket Number	54320.000008

AUG 05 2003

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NON-PATENT LITERATURE DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initials*	Cite No.*	
WJW	45.	Wiseman, A., "Immobilization of Glucose Oxidase into Membranes as Sensors for Food Analysis", <i>Elsevier Science Publishers</i> , (1987).
WJW	46.	Wilson, R., et al., "Glucose Oxidase: An Ideal Enzyme", <i>Biosensors and Bioelectronics</i> , 7:165-185 (1992).
WJW	47.	Raba, J., et al., "Glucose Oxidase as an Analytical Reagent", <i>Critical Reviews in Analytical Chemistry</i> , 25(1):1-42 (1995).
WJW	48.	Voic, J., et al., "Glucose-2 Oxidase Activity in Mycelial Cultures of Basidiomycetes", <i>Folia Microbiol.</i> , 30:141-147 (1985).
WJW	49.	Giffhorn, F., "Fungal Pyranose Oxidases: Occurrence, Properties and Biotechnical Applications in Carbohydrate Chemistry", <i>Appl. Microbiol. Biotechnol.</i> , 54:727-740 (2000).
WJW	50.	Certificate of Analysis for Maltose Monohydrate, SIGMA
WJW	51.	Lin, Shuen-Hui et al., "Purification and Characterization of a Novel Glucooligosaccharide Oxidase from <i>Aspergillus strictum</i> T1", <i>Biochimica et Biophysica Acta</i> , 1118:41-47 (1991).
WJW	52.	Pazur, J.H., et al., "Comparison of the action of Glucoamylase and Glucosyltransferase on D-Glucose, Maltose, and Malto-Oligosaccharides", <i>Carbohydrate Research</i> , 58:193-202 (1977).
WJW	53.	Qi SL J., "New Enzymes for the Baking Industry", <i>Food Tech Europe</i> , 34(1):60-64 (1996), Novo Nordisk Ferment Ltd.
WJW	54.	Weipen, D., "Rheologie von Roggenteigenen. II. Der Einfluss der Enzyme unterschiedlicher Spezifität auf das rheologische Verhalten des Teiges", <i>Getreide, Mehl Und Brot</i> , 26(10):275-280 (1972); and English language translation of Abstract.
WJW	55.	Nicolas, J., "Mise au Point sur l'action d'enzymes d'oxydoréduction en technologie boulangère. La maturation des farines de blé tendre et le pétrissage des pâtes", <i>Ann. Technol. Agric.</i> , 28(4):445-458 (1979); and English language translation of Abstract.
WJW	56.	Mine, Y., "Application of the Enzymatic Methods to the Determination of Contaminated Yolk in Egg White", <i>Food Research International</i> , 29(1):81-104 (1996).
WJW	57.	Pub. No. 06-296467 (JP 6296467), 10/25/1994, Section No. FFFFFFF, Vol. 94, No. 10, Pg. FFFFFF, FF, FFFF (FFFFFF)
		believed to be Patent Abstracts of Japan Vol. 095, No. 001.
WJW	58.	Patent Abstracts of Japan Vo. 016, No. 528 (C-1001).
WJW	59.	Marion Didier, et al., "Lipids, Lipid-Protein Interactions and the Quality of Baked Cereal Products," <i>Interactions: The Keys to Cereal Quality</i> , (ed. Hamer & Hosney), Chapter 6, pp. 131-167 (1998).
WJW	60.	Conference May 6-8 1998 in Santorini, Greece, "Lipases of Lipids Structure, Function and Biotechnological Applications," Slides presented by Charlotte Poulsen.(no copy)
WJW	61.	C.H. Poulsen, et al., "Effect and Functionality of Lipases in Dough and Bread," <i>The First European Symposium on Enzymes and Grains Processing</i> , pp. 204-214 (1997).
WJW	62.	D. Marion, et al., "Wheat Lipids and Lipid-Binding Proteins: Structure and Function," <i>Wheat Structure Biochemistry and Functionality</i> , (ed. Scholfield JP), pp 243-260 (1995).
WJW	63.	"Unique Chances for Better Bread," <i>Direct, A Newsletter from Danisco Ingredients</i> , (1996).
WJW	64.	Sullivan, James Denis Jr., Diss. Abstr. Int. B, 1973, 34(5), 1875, CAN 80: 105204 AN 1974: 105204 CAPLUS, "Purification and characterization of hexose oxidase from the red alga <i>Chondrus crispus</i> "
WJW	65.	Groen, B. W., s De Vries, J. A. Duine (1997), <i>Eu. J. Biochem.</i> , Vol. 244, pp. 858-861, "Characterization of hexose from the red seaweed <i>Chondrus crispus</i> "
WJW	66.	Wolff, A. M., O. C. Hansen, U. Poulsen, S. Madrid, P. Stougaard (2001), Protein Expression and Purification., Vol. 22, pp. 189-199, "Optimization of the Production of <i>Chondrus crispus</i> Hexose Oxidase in <i>Phytis pastoris</i> "
WJW	67.	Haaralahti, S., T. Puhinen (1993) in <i>Baking Industry Europe</i> (Alan Gordon, editor), pp. 49-52 (no copy)
WJW	68.	WEBSTER'S Third New International Dictionary (1981) - page 1065 (no copy)
WJW	69.	PCT-International Search Report for PCT/US96/00238, issued 4/11/96
WJW	70.	PCT-International Search Report for PCT/US96/00239, issued 9/11/96
WJW	71.	The Examiner's Report on Application of Patent Invention (Chilean Appl. No. 939-96) and English translation thereof

Examiner Signature	Date Considered	11 March 2003

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